

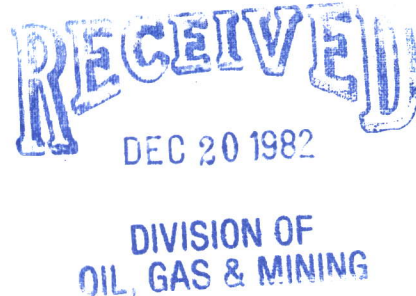


PARAHO DEVELOPMENT CORPORATION

LARRY A. LUKENS  
President  
And  
Chief Executive Officer

December 15, 1982

Mr. D. C. Hansen  
State Engineer  
Division of Water Resources  
Department of Natural Resources  
1636 W. North Temple  
Salt Lake City, UT 84116



RE: Permit Applications

Dear Mr. Hansen:

Enclosed are five (5) applications for permits, Application to Appropriate Water for the proposed Paraho-Ute Facility in Uintah County, Utah. These are:

1. Wastewater Retention Basin, 53 acre-feet storage, 1.1 sec-feet (5.3 acres, Section 32, T9S, R25E, SLB & M)  
This basin will store treated wastewater and storm run-off water from the raw shale fines storage and plant area for use as dust suppression and retorted shale disposal construction.
2. Retention Basin, 23 acre-feet storage, 0.03 sec-feet flow (2.2 acres, Section 6, T10S, R25E, SLB & M).  
This basin will be used to collect run-off from the western slope of the retorted shale disposal site for non-consumptive use.
3. Retention Pond, 6.0 acre-feet storage, 0.01 sec-feet flow (0.75 acres, Section 6, T10S, R25E, SLB & M).  
This pond will be used to collect run-off in the canyon south of the retorted shale disposal site for non-consumptive use.
4. Temporary Sediment Control Basin, 9.0 acre-feet storage, 0.04 sec-feet flow (1.0 acres, Section 32, T9S, R25E, SLB & M).  
This basin will be used to collect run-off water below the mine portal to control sediment discharge.
5. Temporary Sediment Control Basin, 8.0 acre-feet, 0.04 sec-feet (1.0 acres, Section 32, T9S, R25E, SLB & M).  
This basin will be used to collect run-off water below the Retention Basin (3) and surficial soil storage to control sediment discharge.

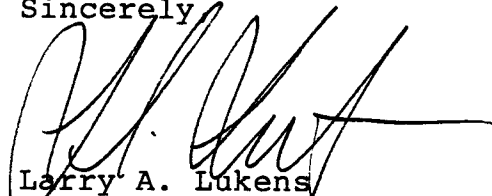
D. C. Hansen  
December 15, 1982

Page 2

Also enclosed is a check for \$180.00 for the application fee.

These five applications fully address the major dams and water impoundments required for the Paraho-Ute project. Should you have any questions regarding these applications, please contact Mr. Robert N. Heistand, Vice President, Environmental Affairs (303) 694-4949 extention 22.

Sincerely



Larry A. Lukens  
President

LL:ks



APPLICATION TO APPROPRIATE WATER  
STATE OF UTAH

NOTE:-The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

TER

RECEIVED

DEC 20 1982

DIVISION OF  
OIL, GAS & MINING

water ☐ Mining ☐ Other Uses ☐

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒
2. The name of the applicant is Paraho Development Corporation
3. The Post Office address of the applicant is 183 Inverness Dr. W. Englewood, Colorado 80112
4. The quantity of water to be appropriated \_\_\_\_\_ second-feet and/or 28.6 (see explanatory) acre-feet  
Suite 300 A
5. The water is to be used for retorted shale disposal from January 1 to December 31  
(Major Purpose) (Month) (Day) (Month) (Day)  
other use period dust suppression from January 1 to December 31  
(Minor Purpose) (Month) (Day) (Month) (Day)  
and stored each year (if stored) from January 1 to December 31  
(Month) (Day) (Month) (Day)
6. The drainage area to which the direct source of supply belongs is \_\_\_\_\_  
(Leave Blank)
7. The direct source of supply is\* storm runoff from an unnamed stream & treated plant wastewater  
(Name of stream or other source) (see explanatory)  
which is tributary to White River, tributary to Green River
- \*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.
8. The point of diversion from the source is in Utah County, situated at a point\*  
1100 feet East and 1600 feet North of the SW corner of Section 32, T9S, R25E,  
SLB & M
- \*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.
9. The diverting and carrying works will consist of an earthfill dam
10. If water is to be stored, give capacity of reservoir in acre-feet 50.0 height of dam 75 ft. max.  
area inundated in acres 3.4 legal subdivision of area inundated land located in the  
N 1/2 of the SW 1/4 of Section 32, T9S, R25E, SLB & M
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:  
\_\_\_\_\_  
\_\_\_\_\_ Total \_\_\_\_\_ Acres
12. Is the land owned by the applicant? Yes \_\_\_\_\_ No X If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes \_\_\_\_\_ No X  
If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. \_\_\_\_\_
15. If application is for mining, the water will be used in an unnamed Mining District at  
the Paraho-Ute mine, where the following ores are mined Oil Shale
16. If application is for stockwatering purposes, number and kind of stock watered \_\_\_\_\_
17. If application is for domestic purposes, number of persons \_\_\_\_\_, or families \_\_\_\_\_
18. If application is for municipal purposes, name of municipality \_\_\_\_\_
19. If application is for other uses, include general description of proposed uses To impound runoff  
water from the oil shale plant site and provide a storage area for treated wastewater  
to be used in the retorted shale disposal activities and dust suppression needs.
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in para-  
graphs 14 to 19, incl. NW 1/4 of the SW 1/4 and NE 1/4 of the SW 1/4 of Section 32,  
T9S, R25E, SLB & M
21. The use of water as set forth in this application will consume 28.6 (see explanation) second-feet and/or acre-  
feet of water and 0 second-feet-and/ or acre feet will be returned to the natural  
stream or source at a point described as follows: \_\_\_\_\_

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

4. The average annual runoff volume from the 171 acres draining into the retention basin was calculated to be 14.3 ac-ft. The water to be appropriated and consumed is filed for twice that amount to cover above average water years.

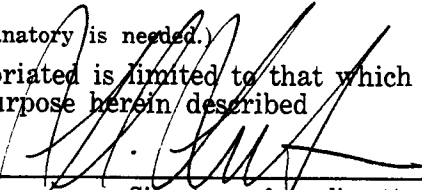
Capacity of the retention basin is sized to provide 20 ac-ft of runoff from the raw shale storage area and 33 ac-ft of plant wastewater storage requiring a total of 53 ac-ft of storage.

The retention basin is also required for water quality protection - to prevent runoff from the plant area and raw shale fines storage from reaching the White River.

7. A portion of the treated plant wastewater is derived from the oil shale retorting process. 386 gallons/minute will be added to the water required for the plant. A portion of this water will make-up the 33 ac-ft of treated plant wastewater storage.

21. Approximately 28.6 ac-ft of water resulting from storm runoff will be consumed annually and used in retorted shale disposal process or depleted by evaporation.

12. Utah State Mineral Lease #35894

(Use page 4 if additional explanatory is needed.)  
The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described  
  
Signature of Applicant\*  
Larry A. Lukens, President

\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, }  
County of..... } ss

On the ..... day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

## FEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost
0.0 to 0.1 .....	\$ 15.00
over 0.1 to 0.5 .....	30.00
over 0.5 to 1.0 .....	45.00
over 1.0 to 15.0 .....	45.00 plus \$7.50 for each cfs above the first cubic
over 15.0 .....	150.00 foot per second.

**Storage — acre-feet**

0 to 20 .....	22.50	
over 20 to 500 .....	45.00	
over 500 to 7500 .....	45.00	plus \$7.50 or each 00 a.f. above the first
over 7500 .....	150.00	500 acre feet.

**(This section is not to be filled in by applicant)**

## STATE ENGINEER'S ENDORSEMENTS

- |     |   |                                     |
|-----|---|-------------------------------------|
| 1.  | Application received by mail over counter   | in State Engineer's office by ..... |
| 2.  | Priority of Application brought down to, on account of .....                      |                                     |
| 3.  | Application fee, \$.....,   | received by ..... Rec. No. ....     |
| 4.  | Application microfilmed by .....  | Roll No. ....                       |
| 5.  | Indexed by .....  | Platted by .....                    |
| 6.  | Application examined by .....   |                                     |
| 7.  | Application returned, .....   | or corrected by office .....        |
| 8.  | Corrected Application resubmitted by mail over counter                            | to State Engineer's office.         |
| 9.  | Application approved for advertisement by .....                                   |                                     |
| 10. | Notice to water users prepared by .....   |                                     |
| 11. | Publication began; was completed .....  |                                     |
|     | Notice published in .....   |                                     |
| 12. | Proof slips checked by .....  |                                     |
| 13. | Application protested by .....  |                                     |
| 14. | Publisher paid by M.E.V. No. ....   |                                     |
| 15. | Hearing held by .....   |                                     |
| 16. | Field examination by .....  |                                     |
| 17. | Application designated for approval rejection                                     |                                     |
| 18. | Application copied or photostated by .....  | proofread by .....                  |
| 19. | Application approved rejected   |                                     |
| 20. | <b><u>Conditions:</u></b>   |                                     |
|     | This Application is approved, subject to prior rights, as follows:                |                                     |
| a.  | Actual construction work shall be diligently prosecuted to completion.            |                                     |
| b.  | Proof of Appropriation shall be submitted to the State Engineer's office by ..... |                                     |
| c.  | .....   |                                     |
|     |   | State Engineer                      |
| 21. | Time for making Proof of Appropriation extended to .....                          |                                     |
| 22. | Proof of Appropriation submitted.   |                                     |
| 23. | Certificate of Appropriation, No. ....  | , issued                            |

Application No.....

**EXPLANATORY CONTINUED****NOTICE TO APPLICANT**

All waters in this state, whether above or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.



10 29  
11 32

PRODUCT OIL PIPELINE

RA / SHALE FINES STORAGE

34

ELEV. 5725'

23

23

22

20

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51

19

31

36

24

4

1

RETENTION BASIN

SURFICIAL  
SOILS

46

ELEV. 5465'

WASTE  
ROCK

52

COR SECTION 32 T9S R25E

TO SECTION

6

48

WHITE  
RIVER

50090

27

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POWERLINE

5425

5425

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APPLICATION TO APPROPRIATE WATER  
STATE OF UTAH

NOTE:--The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanation."

For the purpose of acquiring the right to use a portion of the appropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒
2. The name of the applicant is Paraho Development Corporation
3. The Post Office address of the applicant is 183 Inverness Drive West, Englewood, Colorado 80112
4. The quantity of water to be appropriated Suite 3 1 Acre-foot and/or 23.4 (see explanation) 1 second-foot
5. The water is to be used for \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_  
(Major Purpose) (Month) (Day) (Month) (Day)
- other use period \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_  
(Minor Purpose) (Month) (Day) (Month) (Day)
- and stored each year (if stored) from January 1 to December 31  
(Month) (Day) (Month) (Day)
6. The drainage area to which the direct source of supply belongs is \_\_\_\_\_  
(Leave Blank)
7. The direct source of supply is\* Storm runoff from an unnaed stream  
(Name of stream or other source)
- \* which is tributary to White River tributary to Green River
- \*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a well, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channel, well, spring, or drain, as the case may be, and the source of supply. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.
8. The point of diversion from the source is in Utah \_\_\_\_\_ County, situated at a point\* 1628 feet east & 930 feet north of the SW corner of Section 32, T9S, R25E, SLB & M
- \*Note.—The point of diversion must be located definitely by course and distance or by reference to a United States land survey corner or United States mineral monument, or by reference to a natural object, to some prominent and permanent natural object. No application for a water right will be accepted unless the point of diversion is not defined definitely.
9. The diverting and carrying works will consist of a temporary earthfill dam
10. If water is to be stored, give capacity of reservoir in acre-feet 80 height of dam 18 ft. area inundated in acres 1.0 legal subdivision of area inundated SE 1/4 of the SW 1/4 of Section 32, T9S, R25E, SLB & M
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ Total \_\_\_\_\_ Acres
12. Is the land owned by the applicant? Yes \_\_\_\_\_ No x If "no," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes \_\_\_\_\_ No x If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. \_\_\_\_\_
15. If application is for mining, the water will be used in \_\_\_\_\_ Mining District at the \_\_\_\_\_ mine, where the following ores are mined \_\_\_\_\_
16. If application is for stockwatering purposes, number and kind of stock watered \_\_\_\_\_
17. If application is for domestic purposes, number of persons \_\_\_\_\_, or families \_\_\_\_\_
18. If application is for municipal purposes, name of municipality \_\_\_\_\_
19. If application is for other uses, include general description of proposed uses non-beneficial use for storm water retention and sediment control during construction - water to be depleted by evaporation.
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. non-beneficial storage of storm runoff and sediment control in Section 32, T9S, R25E, SLB & M
21. The use of water as set forth in this application will consume 23.4 second-foot and/or acre-foot of water and 0 second-foot and/or acre-foot will be returned to the natural stream or source at a point described as follows: \_\_\_\_\_



The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

4. The average annual runoff from the 140 acres draining into the temporary sediment control basin was calculated to be 11.7 ac-ft. The water to be appropriated and consumed is filed for twice that amount to cover above average water years. The capacity of the temporary sediment control basin was calculated by summing the storm and the projected accumulation of sediment in the basin over a five year period.

The temporary sediment control basin is required for water quality protection - to prevent sediment laden runoff from the construction areas from reaching the White River.

12. Utah State Mineral Lease #35894

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Signature of Applicant\*  
Larry A. Lukens, President

\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, }  
County of..... } ss

On the .....day of ....., 19 ....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

## FEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost
0.0 to 0.1 .....	\$ 15.00
over 0.1 to 0.5 .....	30.00
over 0.5 to 1.0 .....	45.00
over 1.0 to 15.0 .....	45.00
over 15.0 .....	150.00

plus \$7.50 for each cfs above the first cubic foot per second.

### Storage — acre-feet

0 to 20 .....	22.50	
over 20 to 500 .....	45.00	
over 500 to 7500 .....	45.00	plus \$7.50 for each 500 a.f. above the first
over 7500 .....	150.00	500 acre feet.

**(This section is not to be filled in by applicant)**

## STATE ENGINEER'S ENDORSEMENTS

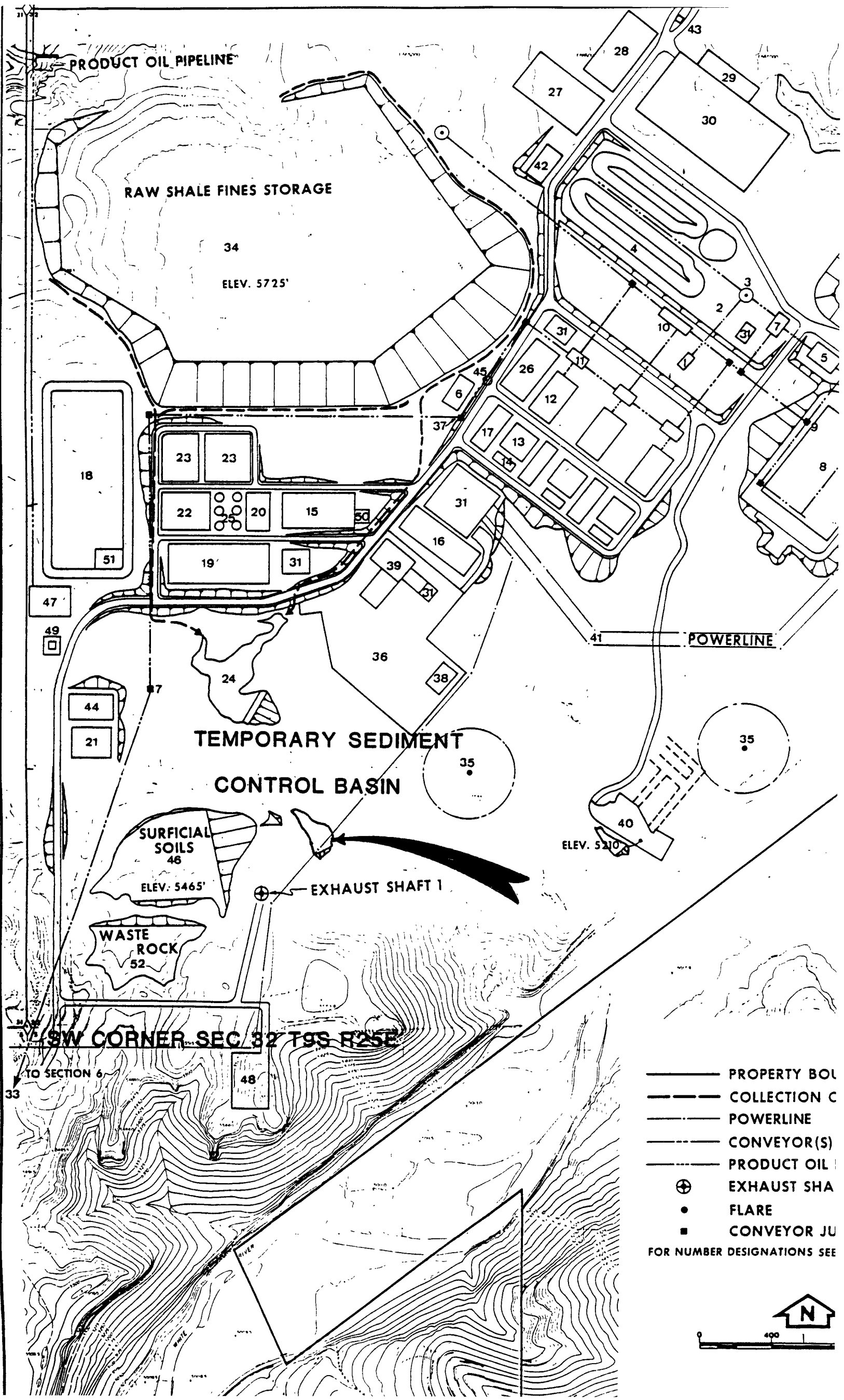
1. .... Application received <sup>by mail</sup> over counter in State Engineer's office by .....
2. .... Priority of Application brought down to, on account of .....
3. .... Application fee, \$....., received by ..... Rec. No. ....
4. .... Application microfilmed by ..... Roll No. ....
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8. .... Corrected Application resubmitted <sup>by mail</sup> over counter to State Engineer's office. ....
9. .... Application approved for advertisement by .....
10. .... Notice to water users prepared by .....
11. .... Publication began; was completed .....
12. .... Notice published in .....
13. .... Proof slips checked by .....
14. .... Application protested by .....
15. .... Publisher paid by M.E.V. No. ....
16. .... Hearing held by .....
17. .... Field examination by .....
18. .... Application designated for <sup>approval</sup> rejection .....
19. .... Application copied or photostated by ..... proofread by .....
20. .... Application <sup>approved</sup> rejected .....
20. **Conditions:**  
This Application is approved, subject to prior rights, as follows:  
a. Actual construction work shall be diligently prosecuted to completion.  
b. Proof of Appropriation shall be submitted to the State Engineer's office by .....  
c. ....  
.....  
..... State Engineer
21. .... Time for making Proof of Appropriation extended to .....
22. .... Proof of Appropriation submitted.
23. .... Certificate of Appropriation, No. ...., issued

Application No.....

**NOTICE TO APPLICANT**

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PRODUCT OIL PIPELINE

RAW SHALE FINES STORAGE

34

ELEV. 5725'

POWERLINE

TEMPORARY SEDIMENT  
CONTROL BASIN

SURFICIAL  
SOILS

46

ELEV. 5465'

WASTE  
ROCK

52

EXHAUST SHAFT 1

SW CORNER SEC. 32 T9S R25E

TO SECTION 6

- PROPERTY BOUNDARY
  - COLLECTION CANAL
  - POWERLINE
  - CONVEYOR(S)
  - PRODUCT OIL LINE
  - EXHAUST SHAFT
  - FLARE
  - CONVEYOR JUNCTION
- FOR NUMBER DESIGNATIONS SEE



0 400



# APPLICATION TO APPROPRIATE WATER STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒
2. The name of the applicant is Paraho Development Corporation
3. The Post Office address of the applicant is 183 Inverness Dr. West, Suite 300A, Englewood, Colorado 80111
4. The quantity of water to be appropriated                      second-feet and/or 27.0 acre-feet
5. The water is to be used for                      from                      to                      (see explanation)  

(Major Purpose)
(Month)
(Day)
(Month)
(Day)

 other use period                      from                      to                       

(Minor Purpose)
(Month)
(Day)
(Month)
(Day)

 and stored each year (if stored) from January 1 to December 31  

(Month)
(Day)
(Month)
(Day)
6. The drainage area to which the direct source of supply belongs is                       

(Leave Blank)
7. The direct source of supply is\* storm runoff from an unnamed stream  

(Name of stream or other source)

which is tributary to White River, tributary to Green River

\*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Uintah County, situated at a point\* 2100 feet West and 930 feet North of the SE corner of Section 32, T9S, R25E, SLB & M

\*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if received for filing in which the point of diversion is not defined definitely.

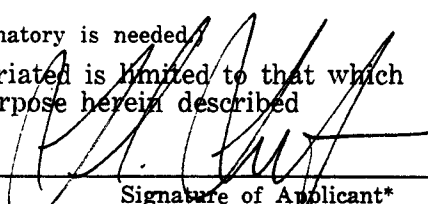
9. The diverting and carrying works will consist of a temporary earthen fill dam
10. If water is to be stored, give capacity of reservoir in acre-feet 9.0 height of dam 15'  
 area inundated in acres 1.0 legal subdivision of area inundated SW 1/4 of the SE 1/4 of Section 32, T9S, R25E, SLB & M
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:  
                      
                      
                      
                     Total                      Acres
12. Is the land owned by the applicant? Yes        No X If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes        No X  
 If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity.
15. If application is for mining, the water will be used in                      Mining District at the                      mine, where the following ores are mined
16. If application is for stockwatering purposes, number and kind of stock watered
17. If application is for domestic purposes, number of persons                      or families
18. If application is for municipal purposes, name of municipality
19. If application is for other uses, include general description of proposed uses non-beneficial use for storm water retention and sediment control during construction-water to be depleted by evaporation
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. non-beneficial storage of storm runoff and sediment control in Section 32, T9S, R25E, SLB & M
21. The use of water as set forth in this application will consume 27.0 second-feet and/or acre-feet of water and 0 second-feet and/or acre feet will be returned to the natural stream or source at a point described as follows:

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

4. The average annual runoff volume from the 163 acres draining into the temporary sediment control basin was calculated to be 13.5 ac-ft. The water to be appropriated & consumed is filed for twice that amount to cover above average water years. The capacity of the temporary sediment control basin was calculated by summing the storm runoff volumes derived from a 10 year - 24 hour storm and the projected accumulation of sediment in the basin over a five year period.

The temporary sediment control basin is required for water quality protection - to prevent sediment laden runoff from the construction areas from reaching the White River.

12. Utah State Mineral Lease #35894

(Use page 4 if additional explanatory is needed.)  
The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described  
  
Signature of Applicant\*  
Larry A. Lukens, President

\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, }  
County of..... } ss

On the .....day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

FEEES FOR APPLICATIONS TO AP PROPRIATE WATER IN UTAH

Flow rate	c.f.s.	Cost	
0.0	to 0.1	\$ 15.0	
over	1 to 0.5	30.0	
over	5 to 1.0	45.0	
over	0 to 15.0	45.0	plus \$7.50 for each cfs above the first cubic
over	1 0	150.0	foot per second.
Storage	— cre-feet		
	0 to 20	22.5	
over	20 to 500	45.0	
over	00 to 7500	45.0	plus \$7.50 for each 500 a.f. above the first
over	00	150.0	500 acre feet.

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. .... Application received by mail  
over counter in State Engineer's office by .....
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8. .... Corrected Application resubmitted by mail  
over counter to State Engineer's office.
9. .... Application approved for advertisement by .....
10. .... Notice to water users prepared by .....
11. .... Publication began; was completed .....
12. .... Notice published in .....
12. .... Proof slips checked by .....
13. .... Application protested by .....
14. .... Publisher paid by M.E.V. No. ....
15. .... Hearing held by .....
16. .... Field examination by .....
17. .... Application designated for approval  
rejection
18. .... Application copied or photostated by ..... proofread by .....
19. .... Application approved  
rejected
20. Conditions:  
This Application is approved, subject to priorities, as follows:  
a. Actual construction work shall be diligently prosecuted to completion.  
b. Proof of Appropriation shall be submitted to the State Engineer's office by .....  
c. ....  
.....  
State Engineer
21. .... Time for making Proof of Appropriation extended to .....
22. .... Proof of Appropriation submitted .....
23. .... Certificate of Appropriation, No ....., issued

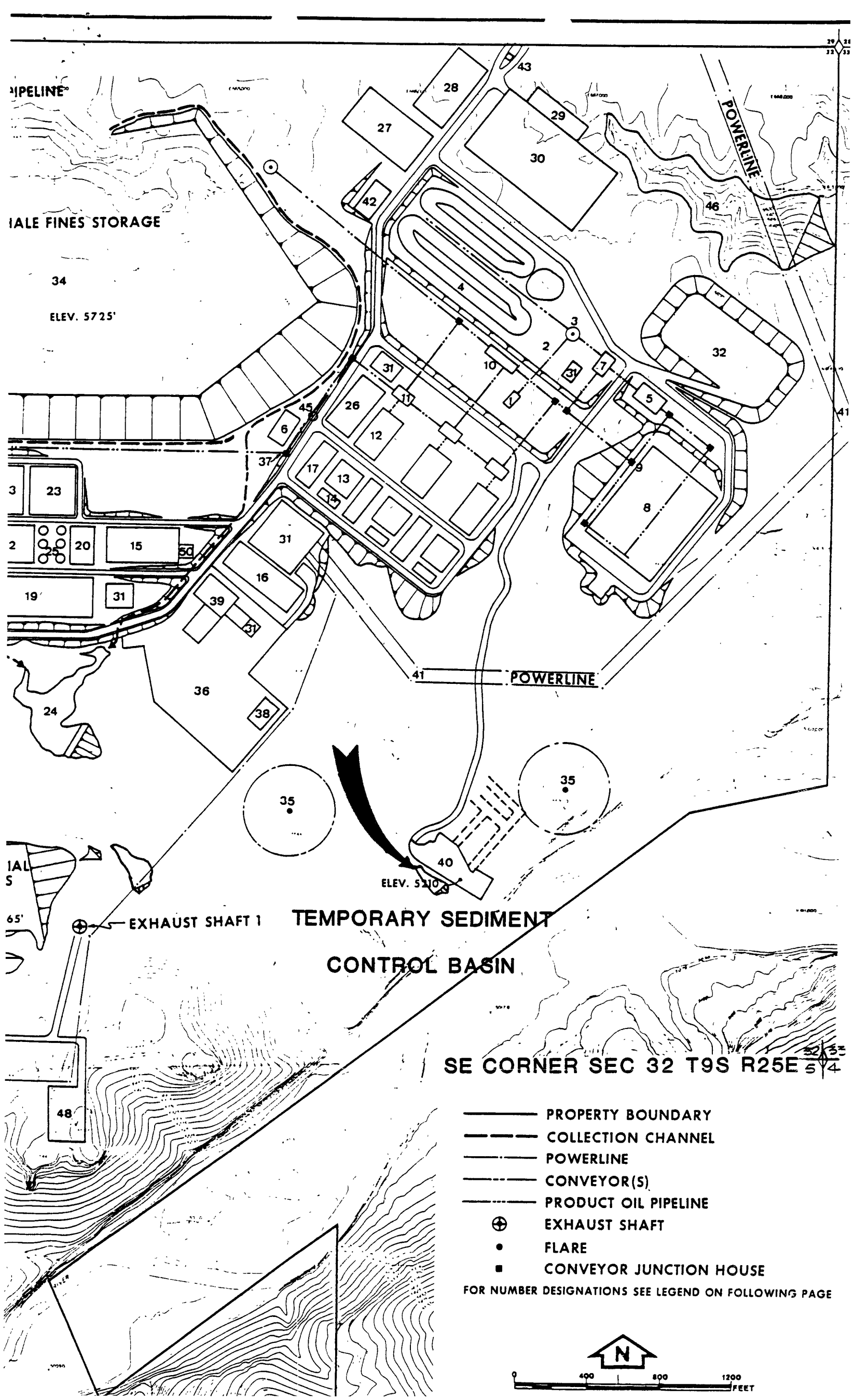
Application No.....

**NOTICE TO APPLICANT**

All waters in this state, whether above or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.





PIPELINE

COARSE FINE'S STORAGE

POWERLINE

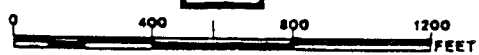
POWERLINE

TEMPORARY SEDIMENT  
CONTROL BASIN

SE CORNER SEC 32 T9S R25E

- PROPERTY BOUNDARY
- COLLECTION CHANNEL
- POWERLINE
- CONVEYOR(S)
- PRODUCT OIL PIPELINE
- EXHAUST SHAFT
- FLARE
- CONVEYOR JUNCTION HOUSE

FOR NUMBER DESIGNATIONS SEE LEGEND ON FOLLOWING PAGE



APPLICATION TO APPROPRIATE WATER  
STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory".

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☒ Mining ☐ Other Uses ☒

2. The name of the applicant is Paraho Development Corporation

3. The Post Office address of the applicant is 183 Inverness Drive West, Englewood, Colo. 80112

4. The quantity of water to be appropriated Suite 300 A second-feet and/or 19.2 acre-feet (see explanatory

5. The water is to be used for \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_  
(Major Purpose) (Month) (Day) (Month) (Day)

other use period \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_  
(Minor Purpose) (Month) (Day) (Month) (Day)

and stored each year (if stored) from January 1 to Dec. 31  
(Month) (Day) (Month) (Day)

6. The drainage area to which the direct source of supply belongs is \_\_\_\_\_  
(Leave Blank)

7. The direct source of supply is\* storm runoff from an unnamed stream  
(Name of stream or other source)

which is tributary to White River, tributary to Green River

\*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Uintah County, situated at a point\*  
685 feet east of the SW corner of Section 6, T10S, R25E, SLB & M

\*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of an earthfill dam

10. If water is to be stored, give capacity of reservoir in acre-feet 23.0 height of dam 40 feet  
area inundated in acres 2.2 legal subdivision of area inundated A portion of the  
SW 1/4 of the SW 1/4 of Section 6, T10S, R25E, and a portion of the NW 1/4 of the NW  
1/4 of Section 7, T10S, R25E, SLB & M

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

\_\_\_\_\_ Total \_\_\_\_\_ Acres

12. Is the land owned by the applicant? Yes \_\_\_\_\_ No X If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes \_\_\_\_\_ No X  
If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. \_\_\_\_\_

15. If application is for mining, the water will be used in \_\_\_\_\_ Mining District at  
the \_\_\_\_\_ mine, where the following ores are mined \_\_\_\_\_

16. If application is for stockwatering purposes, number and kind of stock watered \_\_\_\_\_

17. If application is for domestic purposes, number of persons \_\_\_\_\_, or families \_\_\_\_\_

18. If application is for municipal purposes, name of municipality \_\_\_\_\_

19. If application is for other uses, include general description of proposed uses non-consumptive use  
for storm water retention-water to be depleted by evaporation

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. Non-consumptive storage for storm water in Section 6,  
T10S, R25E, SLB & M.

21. The use of water as set forth in this application will consume 19.2 second-feet and/or acre-feet of water and 0 second-feet and/or acre feet will be returned to the natural stream or source at a point described as follows: \_\_\_\_\_

EXPLANATORY

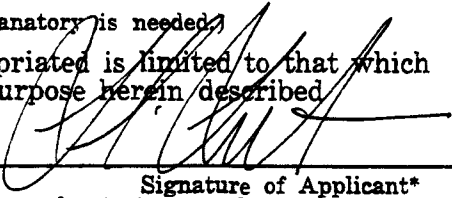
The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

4. The average annual runoff volume from the 115 acres draining into the retention basin was calculated to be 9.6 ac-ft. The water to be appropriated and consumed is filed for twice that amount to cover above average water years. The capacity of the retention basin was based on a 10 yr. 24 hr storm rather than the average annual runoff.

The retention basin is required for water quality protection - to prevent runoff from the spent shale areas from reaching the White River.

12. Leased from Skyline Oil Company (Sohio Shale Oil Company)

Use page 4 if additional explanatory is needed.  
The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.



Signature of Applicant\*  
Larry A. Lukens, President

\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, }  
County of..... } ss

On the ..... day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

\_\_\_\_\_  
Notary Public



## FEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost
0.0 to 0.1 .....	\$ 15.00
over 0.1 to 0.5 .....	30.00
over 0.5 to 1.0 .....	45.00
over 1.0 to 15.0 .....	45.00
over 15.0 .....	150.00

plus \$7.50 for each cfs above the first cubic foot per second.

Storage — acre-feet		
0 to	20 .....	22.50
over 20 to	500 .....	45.00
over 500 to	7500 .....	45.00
over 7500	.....	150.00

plus \$7.50 for each 500 a.f. above the first 500 acre feet.

**(This section is not to be filled in by applicant)**

### STATE ENGINEER'S ENDORSEMENTS

1. .... Application received <sup>by mail</sup> over counter in State Engineer's office by .....
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6. .... Application examined by .....
7. .... Application returned, ..... or corrected by office .....
8. .... Corrected Application resubmitted <sup>by mail</sup> over counter to State Engineer's office.
9. .... Application approved for advertisement by .....
10. .... Notice to water users prepared by .....
11. .... Publication began; was completed .....
12. .... Notice published in .....
13. .... Proof slips checked by .....
14. .... Application protested by .....
15. .... Publisher paid by M.E.V. No. ....
16. .... Hearing held by .....
17. .... Field examination by .....
18. .... Application designated for <sup>approval</sup> rejection .....
19. .... Application copied or photostated by ..... proofread by .....
20. .... Application <sup>approved</sup> rejected .....
20. **Conditions:**  
This Application is approved, subject to prior rights, as follows:
  - a. Actual construction work shall be diligently prosecuted to completion.
  - b. Proof of Appropriation shall be submitted to the State Engineer's office by .....
  - c. ....
21. .... Time for making Proof of Appropriation extended to .....
22. .... Proof of Appropriation submitted.
23. .... Certificate of Appropriation, No. ...., issued

Application No.....



**NOTICE TO APPLICANT**

All waters in this state, whether above or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.

SANITARY LANDFILLS

RE  
SH

ACCESS ROAD

POWERLINE

DRY DRAINAGE  
DIVERSION

POWERLINE

ELEV. 5500'

WASTE ROCK  
ELEV. 5400'

52

SURFICIAL  
SOILS

46  
ELEV. 5280'

EXHAUST  
SHAFT 2 ⊕

RETORTED SHALE DISPOSAL AREA

33

ELEV. 5600'

RETENTION BASIN

24

SW COR SECTION 6 T10S R25E

Pond  
Bottom  
El. 5195'

Scale 1" = 200'

# APPLICATION TO APPROPRIATE WATER STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒
  2. The name of the applicant is Paraho Development Corporation
  3. The Post Office address of the applicant is 183 Inverness Drive West, Englewood, Colo. 80112  
Suite 300 A (see explanation)
  4. The quantity of water to be appropriated                      -                      second-feet and/or 6.6 acre-feet
  5. The water is to be used for                      from                      to                       
(Major Purpose) (Month) (Day) (Month) (Day)  
other use period                      from                      to                       
(Minor Purpose) (Month) (Day) (Month) (Day)  
and stored each year (if stored) from January 1 to December 31  
(Month) (Day) (Month) (Day)
  6. The drainage area to which the direct source of supply belongs is                       
(Leave Blank)
  7. The direct source of supply is\* storm runoff from an unnamed stream  
(Name of stream or other source)  
which is tributary to White River, tributary to Green River
- \*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.
8. The point of diversion from the source is in Uintah County, situated at a point\*  
860 feet west and 515 feet south of the NE corner of Section 7, T10S, R25E, SLB & M
- \*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.
9. The diverting and carrying works will consist of an earthfill dam
  10. If water is to be stored, give capacity of reservoir in acre-feet 6.0 height of dam 20  
area inundated in acres .75 legal subdivision of area inundated A portion of the NE 1/4  
of the NE 1/4 of Section 7, T10S, R25E, SLB & M
  11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:  
                      
                      
                     Total                      Acres
  12. Is the land owned by the applicant? Yes X No X If "No," explain on page 2.
  13. Is this water to be used supplementally with other water rights? Yes                      No X  
If "yes," identify other water rights on page 2.
  14. If application is for power purposes, describe type of plant, size and rated capacity.
  15. If application is for mining, the water will be used in                      Mining District at  
the                      mine, where the following ores are mined
  16. If application is for stockwatering purposes, number and kind of stock watered
  17. If application is for domestic purposes, number of persons                     , or families
  18. If application is for municipal purposes, name of municipality
  19. If application is for other uses, include general description of proposed uses non-beneficial use  
for storm water retention - water to be depleted by evaporation
  20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. non-consumptive storage of storm water in Section 7, T10S,  
R25E, SLB & M
  21. The use of water as set forth in this application will consume 6.6 second-feet and/or acre-  
feet of water and 0 second-feet and/or acre feet will be returned to the natural  
stream or source at a point described as follows:

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

4. The average annual runoff volume from the 40 acres draining into the retention basin was calculated to be 3.3 ac-ft. The water to be appropriated and consumed is filed for twice that amount to cover above average water years. The capacity of the retention basin was on a 10 yr. - 24 hr. storm rather than the average annual runoff.

The retention basin is required for water quality protection - to prevent runoff from the spent shale areas from reaching the White River.

12. Leased from Skyline Oil Company (Sohio Shale Oil Company)

(Use page 4 if additional explanatory is needed.)  
The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Signature of Applicant\*  
Larry A. Lukens, President

\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, }  
County of..... } ss

On the .....day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public



# **FEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH**

Flow rate — c.f.s.	Cost	
0.0 to 0.1 .....	\$ 15.00	
over 0.1 to 0.5 .....	30.00	
over 0.5 to 1.0 .....	45.00	
over 1.0 to 15.0 .....	45.00	plus \$7.50 for each cfs above the first cubic
over 15.0 .....	150.00	foot per second.

Storage — acre-feet		
0 to 20 .....	22.50	
over 20 to 500 .....	45.00	
over 500 to 7500 .....	45.00	plus \$7.50 for each 500 a.f. above the first
over 7500 .....	150.00	500 acre feet.

(This section is not to be filled in by applicant)

## **STATE ENGINEER'S ENDORSEMENTS**

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16. .... Hearing held by .....
17. .... Field examination by .....
18. .... Application designated for approval rejection
19. .... Application copied or photostated by ..... proofread by .....
20. .... Application approved rejected
20. **Conditions:**  
 This Application is approved, subject to prior rights, as follows:
  - a. Actual construction work shall be diligently prosecuted to completion.
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21. .... Time for making Proof of Appropriation extended to .....
22. .... Proof of Appropriation submitted.
23. .... Certificate of Appropriation, No. ...., issued

State Engineer

Application No.....

## NOTICE TO APPLICANT

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SA ITARY LANDFILLS

RETORTED  
SHALE BIN 2

PC /ERLINE

ACCESS ROAD

POWERLINE

ELEV. 5500'

STE ROCK  
LEV. 5400'

52

EXHAUST  
SHAFT 2 ⊕

RETORTED SHALE DISPOSAL AREA

33

ELEV. 5600'

Pond  
Bottom  
El. 5033'

NE COR SECTION 7 T10S R25E

RETENTION BASIN